

2011 Military Health System Conference

Keeping Tabs: DoD's Response to Psychological Risks

Lessons Learned from Health Assessments

The Quadruple Aim: Working Together, Achieving Success

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January 25, 2011



Armed Forces Health Surveillance Center
&
Psychological Health Strategic Operations
Office of Deputy Assistant Secretary of Defense for
Force Health Protection And Readiness Programs

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Outline



- Introduction & Alibis
- Who are we helping?
- Where do we stand?
- What do the numbers show?
- Where are we going?

Military Health System Conference



January 24 – 27, 2011

Gaylord National Resort & Convention Center
National Harbor, MD

The Quadruple Aim: The MHS Value Model

Readiness

Ensuring that the total military force is medically ready to deploy and that the medical force is ready to deliver health care anytime, anywhere in support of the full range of military operations, including humanitarian missions.

Experience of Care

Providing a care experience that is patient and family centered, compassionate, convenient, equitable, safe and always of the highest quality; effectiveness.



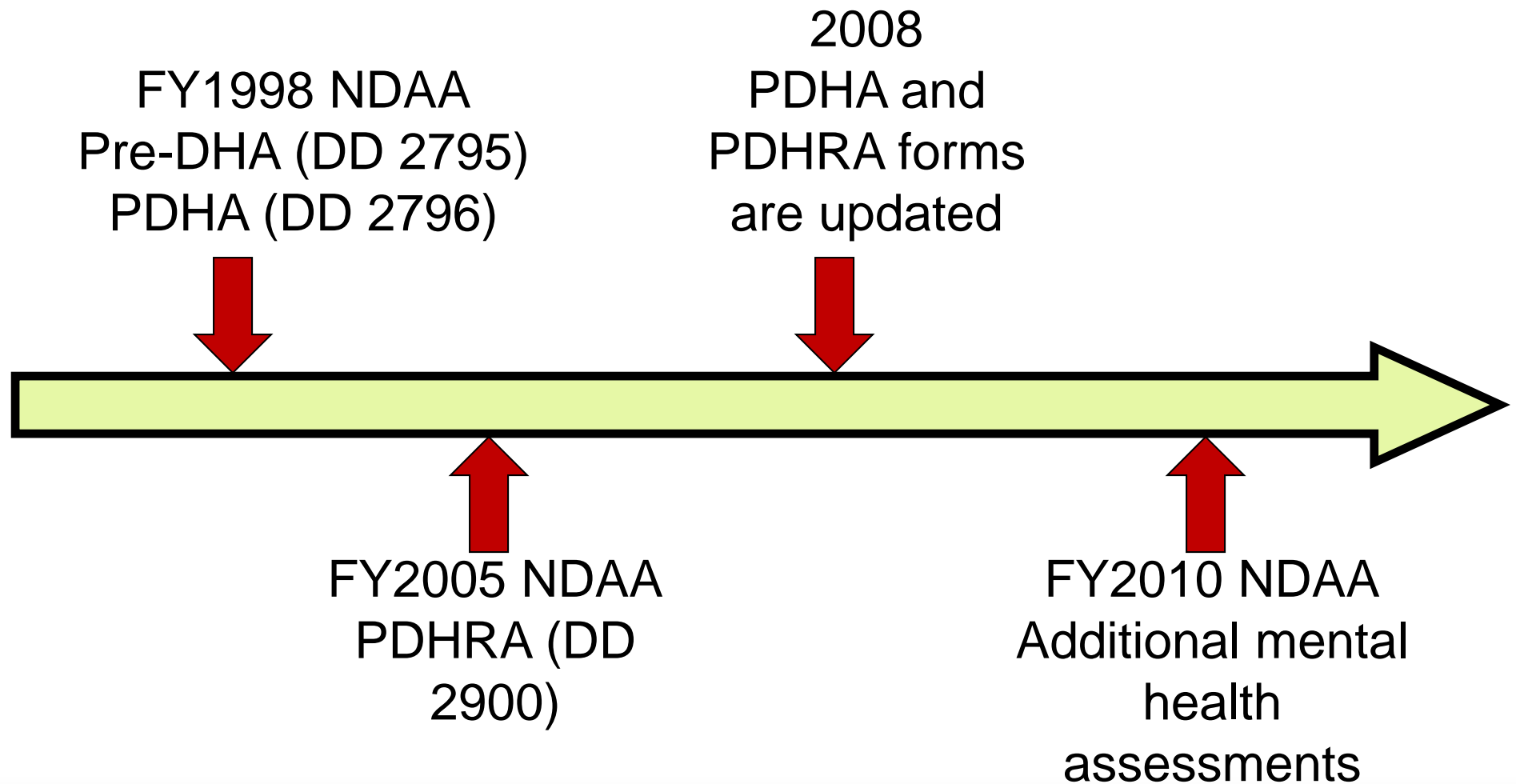
Population Health

Reducing the generators of ill health by encouraging healthy behaviors and decreasing the likelihood of illness through focused prevention and the development of increased resilience.

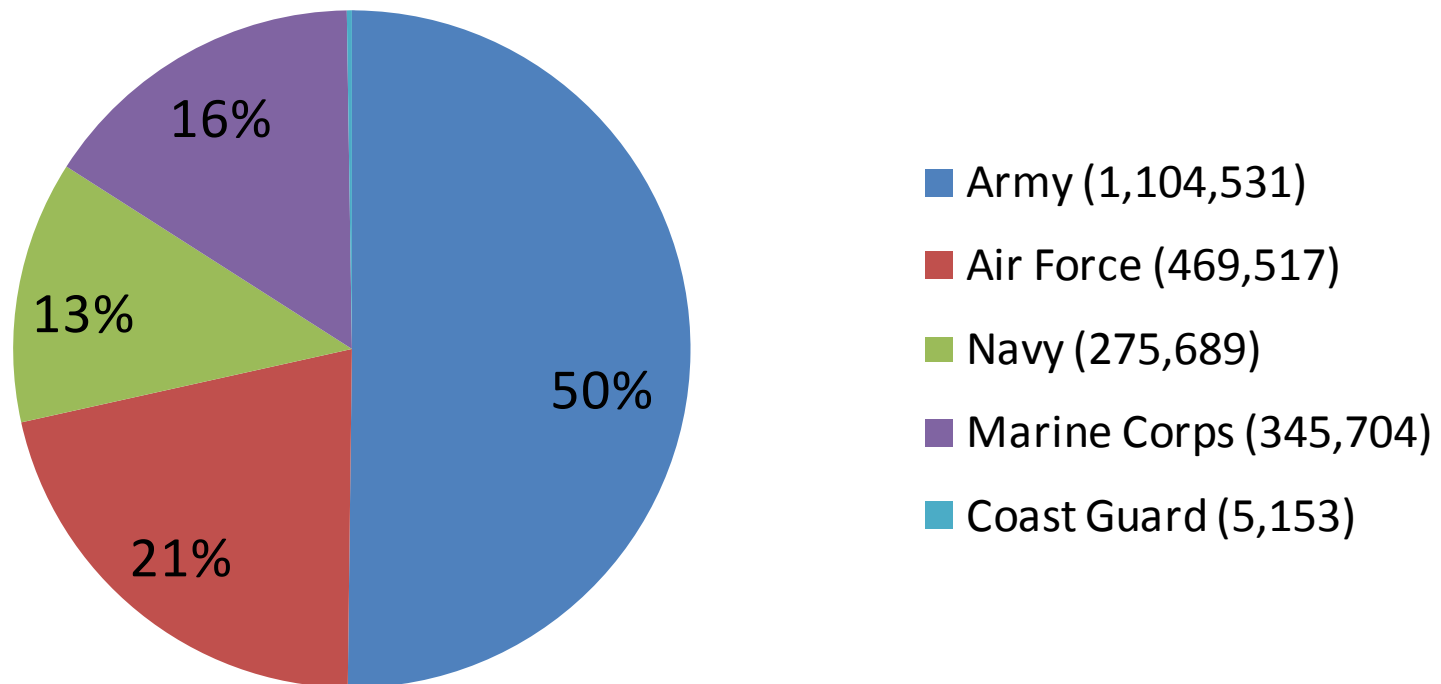
Per Capita Cost

Creating value by focusing on quality, eliminating waste, and reducing unwarranted variation; considering the total cost of care over time, not just the cost of an individual health care activity.

Background



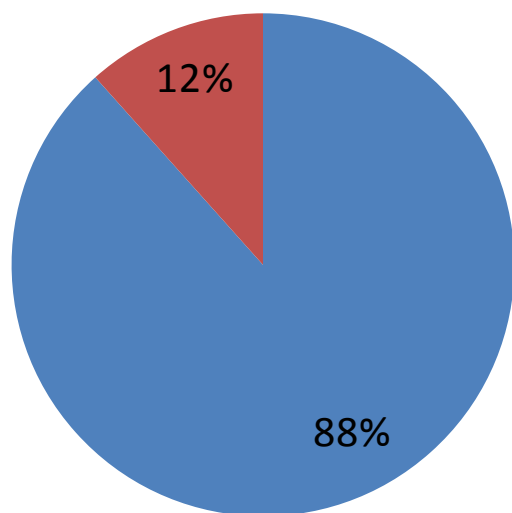
Total Service Members Ever Deployed Since September 2001 by Service



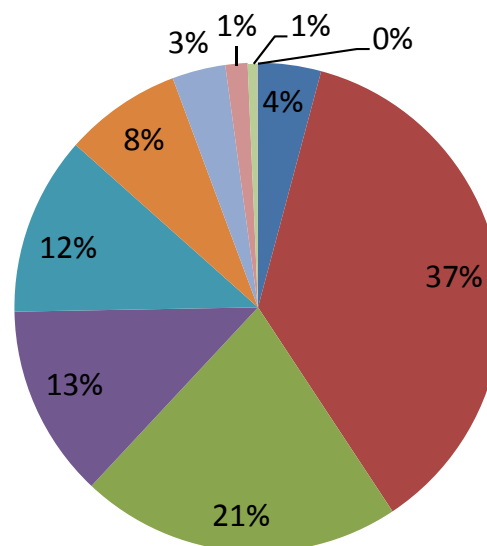
N = 2,200,594

Source: DMDC CTS Roster Sep 2001- October 2010

Total Service Members Ever Deployed Since September 2001 by Gender & Age



■ Male (1,944,890)
■ Female (255,536)

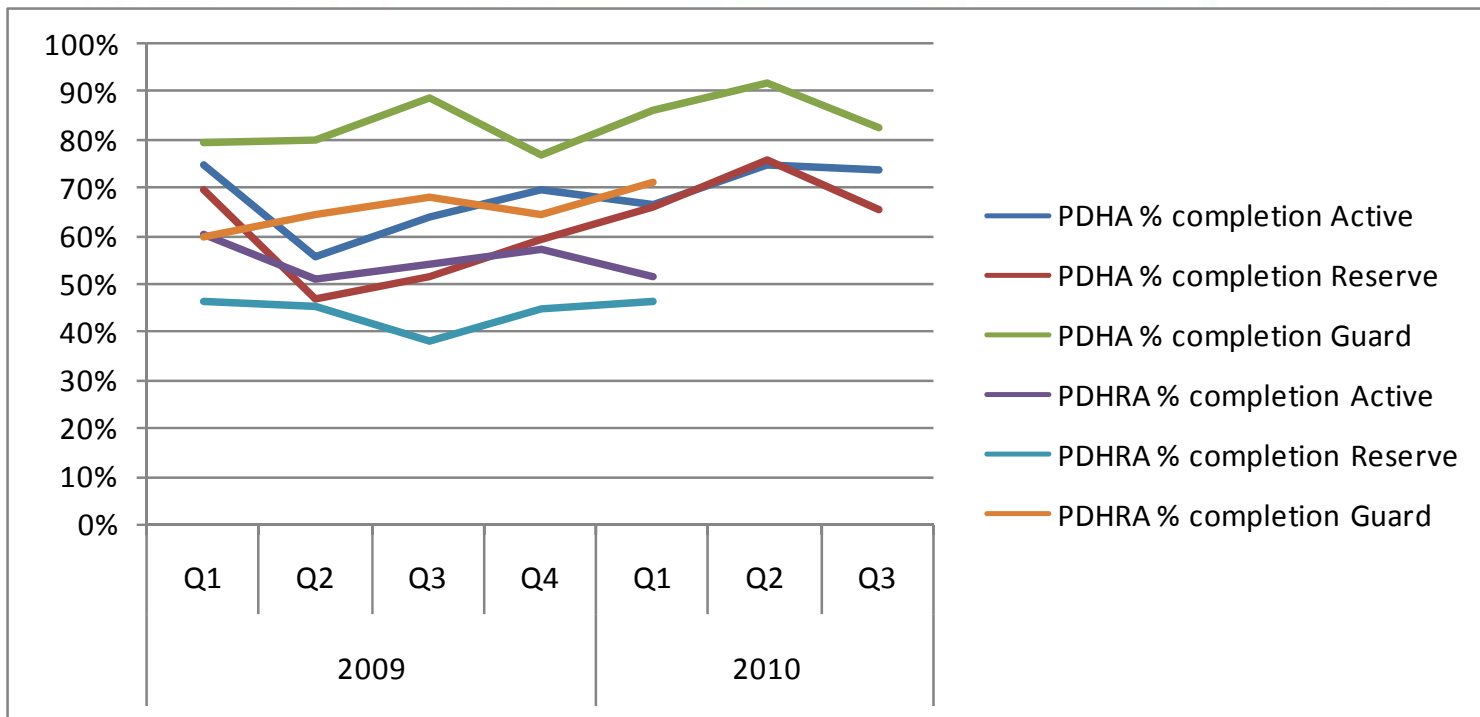


■ Under 20 (91,646) ■ 20 to 24 (804,257)
■ 25 to 29 (467,022) ■ 30 to 34 (280,938)
■ 35 to 39 (261,229) ■ 40 to 44 (170,298)
■ 45 to 49 (77,784) ■ 50 to 54 (32,124)
■ 55 to 59 (14,205) ■ >=60 (715)

N = 2,200,594

Source: DMDC CTS Roster Sep 2001- October 2010

PDHA/RA Completion Rates CY 2009-2010



DoD Total CY 2009-2010	Number of Service Members who Returned from Deployment	Number Completed Forms	% Completion
PDHA (January 2009- September 2010)	695,444	489,261	70%
PDHRA (January 2009-March 2010)	494,792	275,909	56%

Source: Defense Medical Surveillance System (DMSS), 17DEC2010

PTSD & Depression Screening



- Positive PTSD screening (2 of 4 questions)
 - Nightmares
 - Avoid situations
 - Constantly on guard, easily startled
 - Detachment
- Positive depression screening (1 of 2 questions)
 - Little interest or pleasure in doing things
 - Feeling down, depressed, or hopeless

Screening for Risky Drinking



- **AUDIT C: 3 questions**
 - Frequency
 - Quantity
 - Binge drinking frequency
- **Cut offs for risky drinking**
 - Men ≥ 4
 - Women ≥ 3

Health Assessment Results



	Pre-DHA since 2003 (DD 2795)	PDHA since 2003 (DD 2796)	PDHRA since 2005 (DD 2900)
# Completed (# of Individuals)	1,176,432	1,740,909	1,147,918
Self-reported Health Excellent, Very Good, Good	97%	91%	85%
Health Concerns	11%	23%	35%
Positive PTSD Screen	n/a	9%	11%
Positive Depression Screen	n/a	3%	8%
Referred for Further Evaluation	4%	18%	18%

Source: Defense Medical Surveillance System (DMSS), 09JAN2011

Screening for Disorders



- Active Component Mental Disorders
 - Incidence
 - Hospitalization
- Post-deployment screening
 - PTSD
 - Depression
 - Alcohol use
- PTSD and Depression - Attrition and Promotion (survival analysis)

Defense Medical Surveillance System



- Executive information system
 - Longitudinal service data
 - Almost 10M US personnel (including Coast Guard) ever serving on active duty
 - Data date back to the early 1990s
- Contains data on:
 - Major deployments
 - Diseases
 - Medical events

Medical Surveillance Monthly Report



MSMR

A publication of the Armed Forces Health Surveillance Center



MEDICAL SURVEILLANCE
MONTHLY REPORT

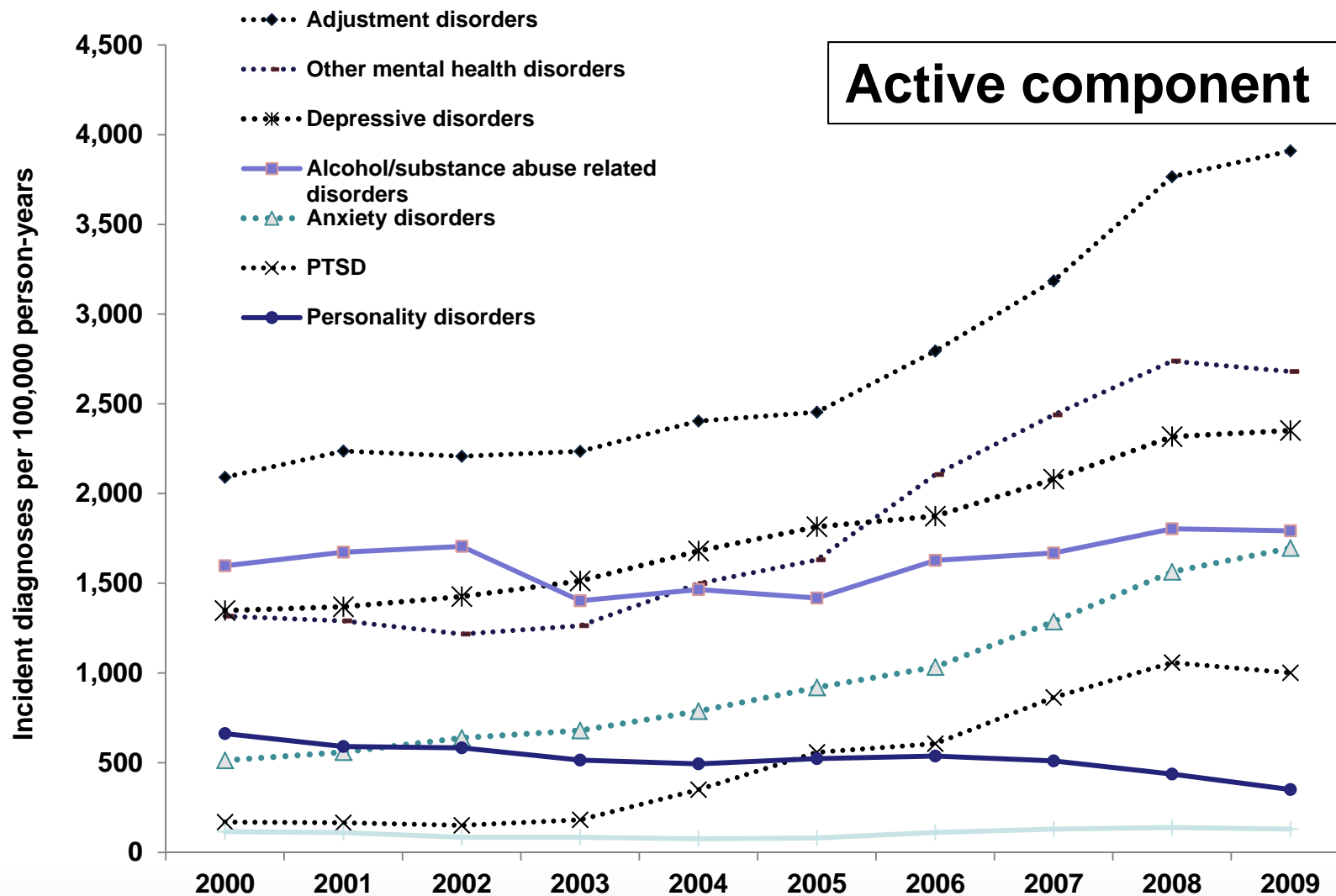
MENTAL HEALTH ISSUE:

Supplemental report: Selected mental health disorders among active component members, U.S. Armed Forces, 2007-2010	2
Mental disorders and mental health problems, active component, U.S. Armed Forces, January 2000-December 2009	6
Hospitalizations for mental disorders, active component, U.S. Armed Forces, January 2000-December 2009	14
Childbirth, deployment, and diagnoses of mental disorders among active component women, January 2002-June 2009	17
<i>Summary tables and figures</i>	
Update: Deployment health assessments, U.S. Armed Forces, November 2010	22
Sentinel reportable medical events, service members and beneficiaries, U.S. Armed Forces, cumulative numbers through October of 2009 and 2010	24
Deployment-related conditions of special surveillance interest	29

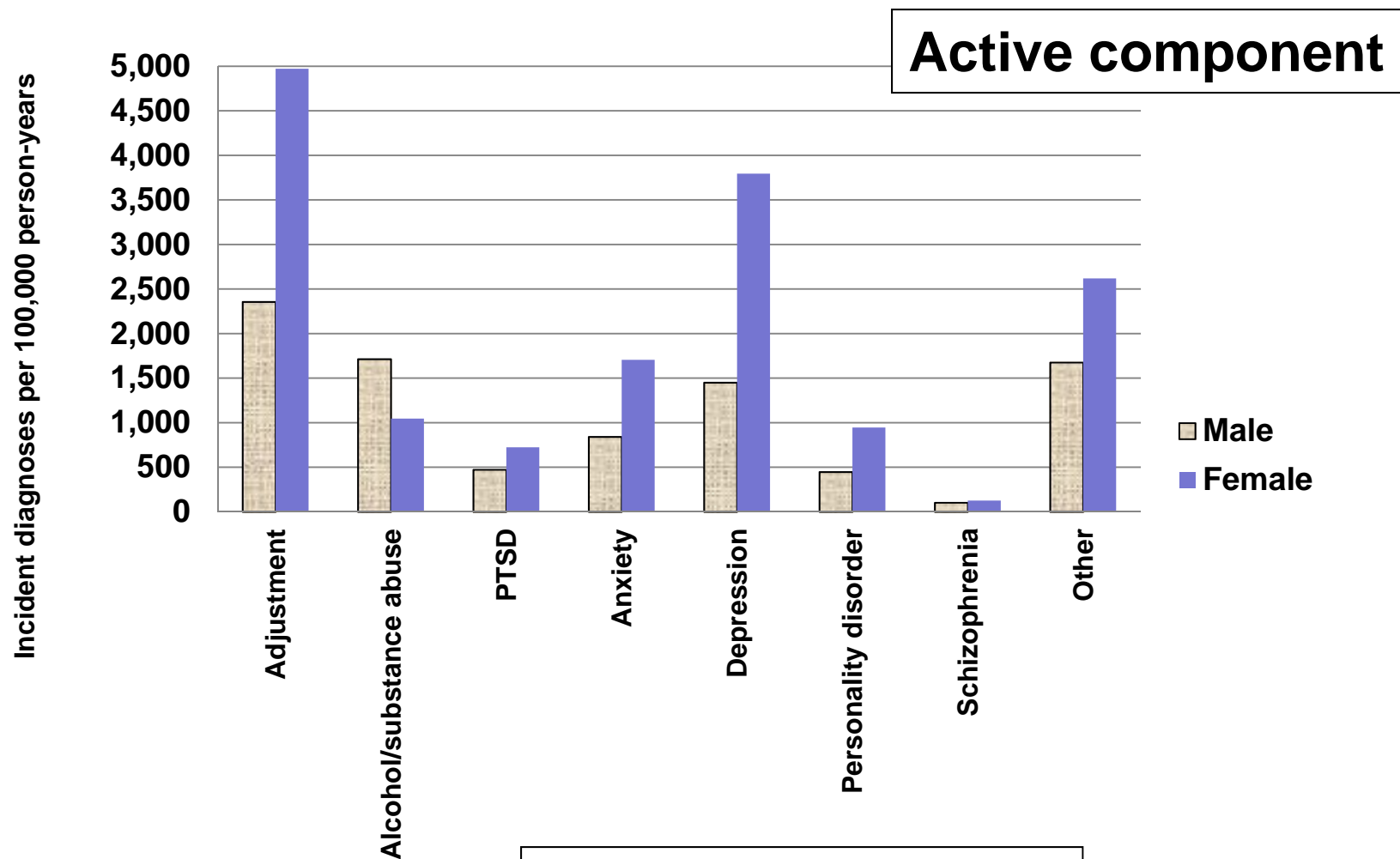
Read the MSMR online at: <http://www.afhsc.mil>

- Published monthly
- In its 16th Year
- Over 100 issues on-line, www.afhsc.mil
- November 2010 issue focused on Mental Health

Mental disorders Incidence

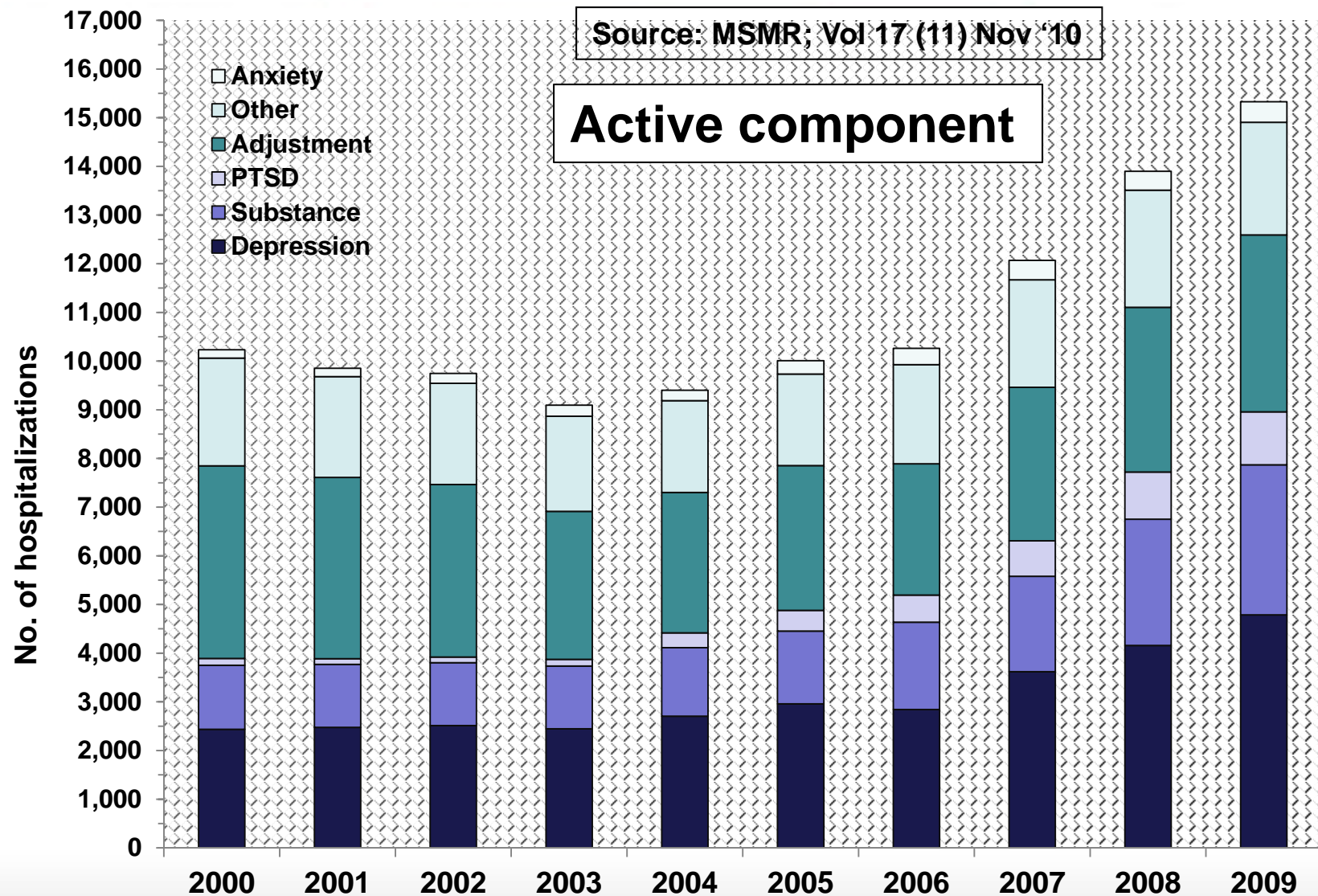


Mental Disorders by Gender, 00-09



Source: MSMR; Vol 17 (11) Nov '10

Mental Disorder-Related Hospitalizations



PTSD Screen for Service Members Returning from Deployment in 2009



Source: Defense Medical Surveillance System

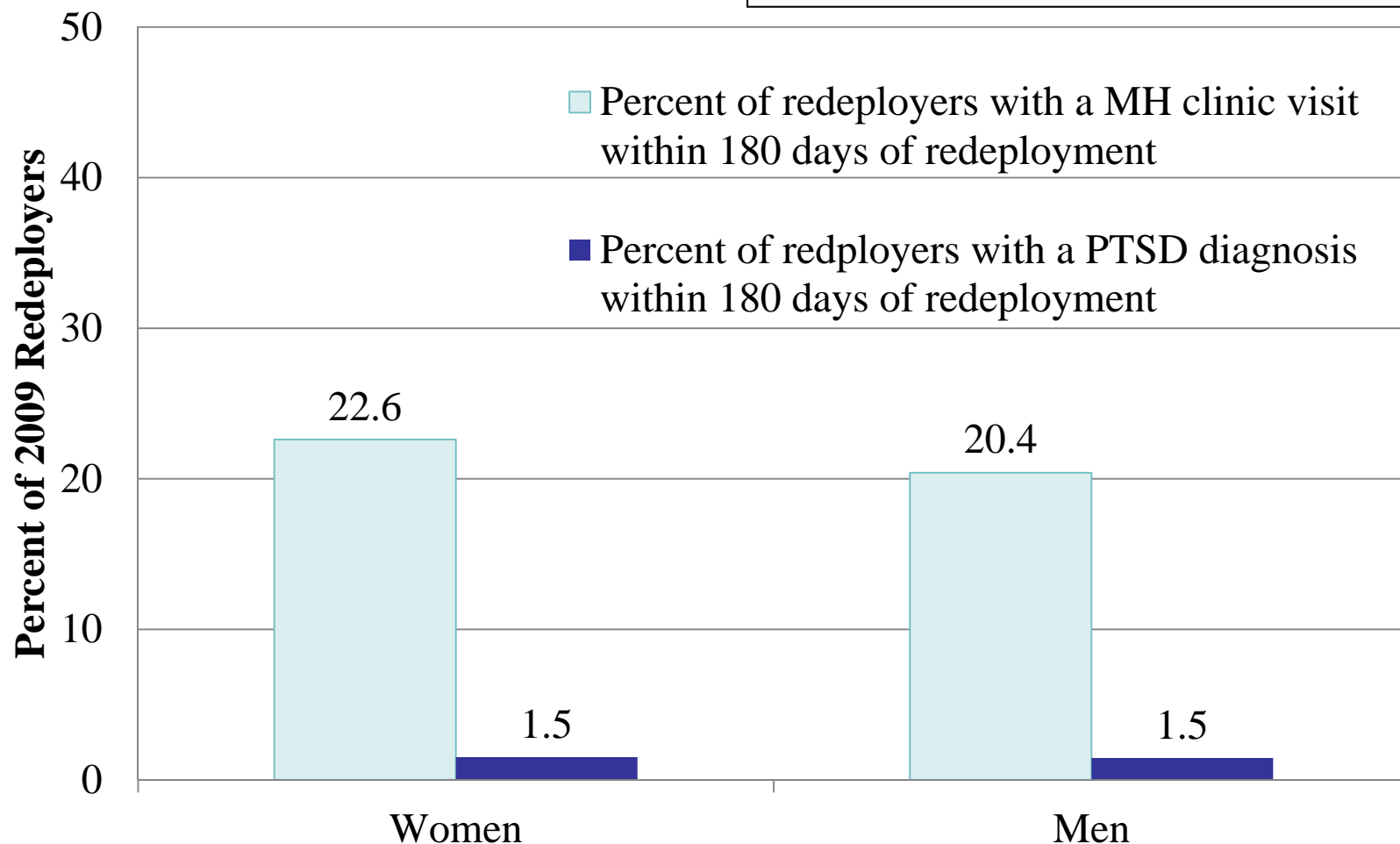
Men		
PDHA	% PTSD Screen Positive	7.3
PDHRA	% PTSD Screen Positive	10.1
Women		
PDHA	% PTSD Screen Positive	7.7
PDHRA	% PTSD Screen Positive	10.6

PDHA=Post-deployment health assessment
PDHRA=Post-deployment health re-assessment

Mental Health Encounters and PTSD among Service Members Returning from Deployment in 2009



Source: Defense Medical Surveillance System



Depression Screen for Service Members Returning from Deployment in 2009



Source: Defense Medical Surveillance System

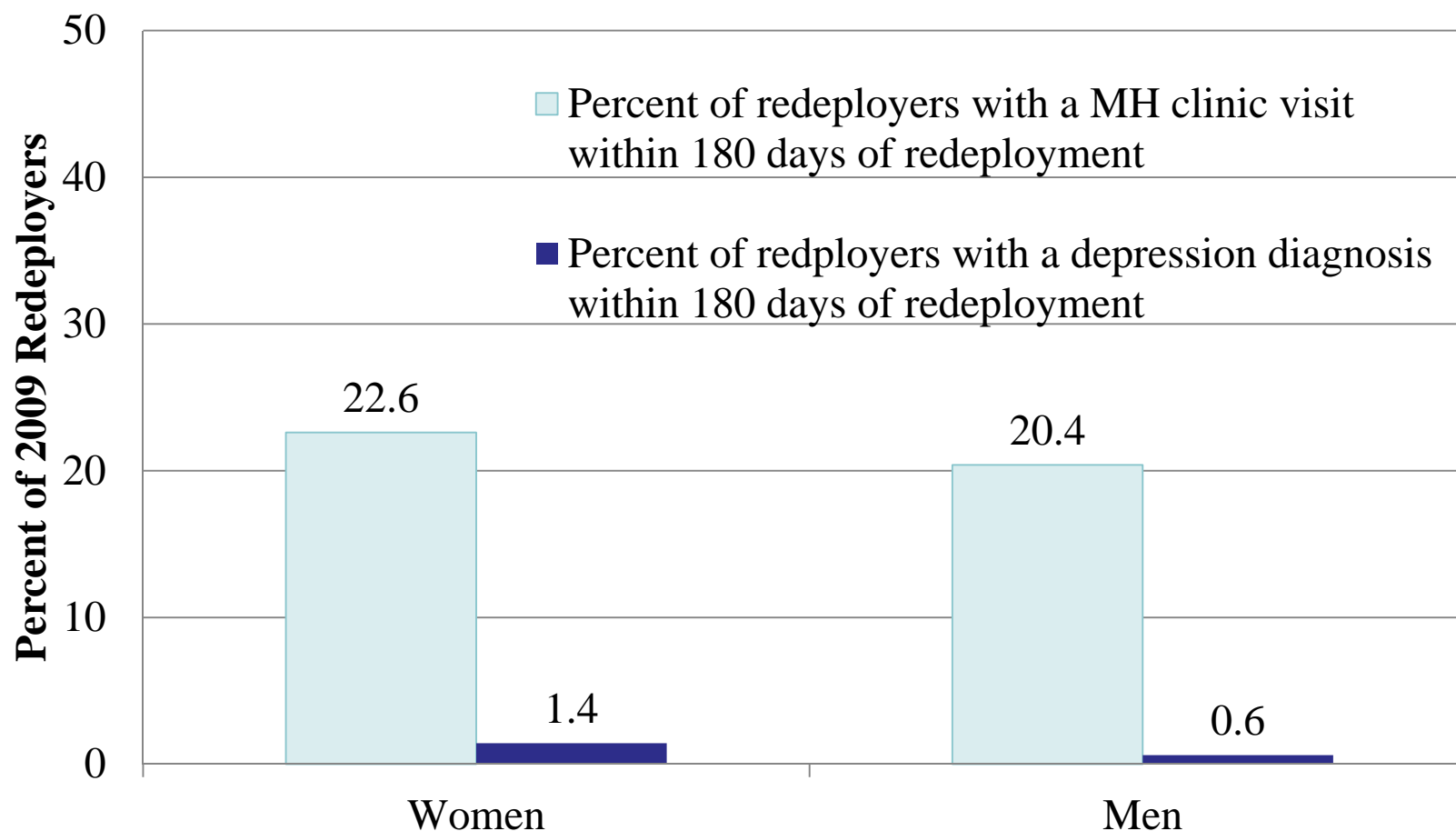
Men		
PDHA	% Screen Positive for Depression	2.7
PDHRA	% Screen Positive for Depression	2.7
Women		
PDHA	% Screen Positive for Depression	2.8
PDHRA	% Screen Positive for Depression	3.1

PDHA=Post-deployment health assessment
PDHRA=Post-deployment health re-assessment

Mental Health Encounters and Depression among Service Members Returning from Deployment in 2009



Source: Defense Medical Surveillance System



Alcohol Screen for 2009 Redeployers



Source: Defense Medical Surveillance System

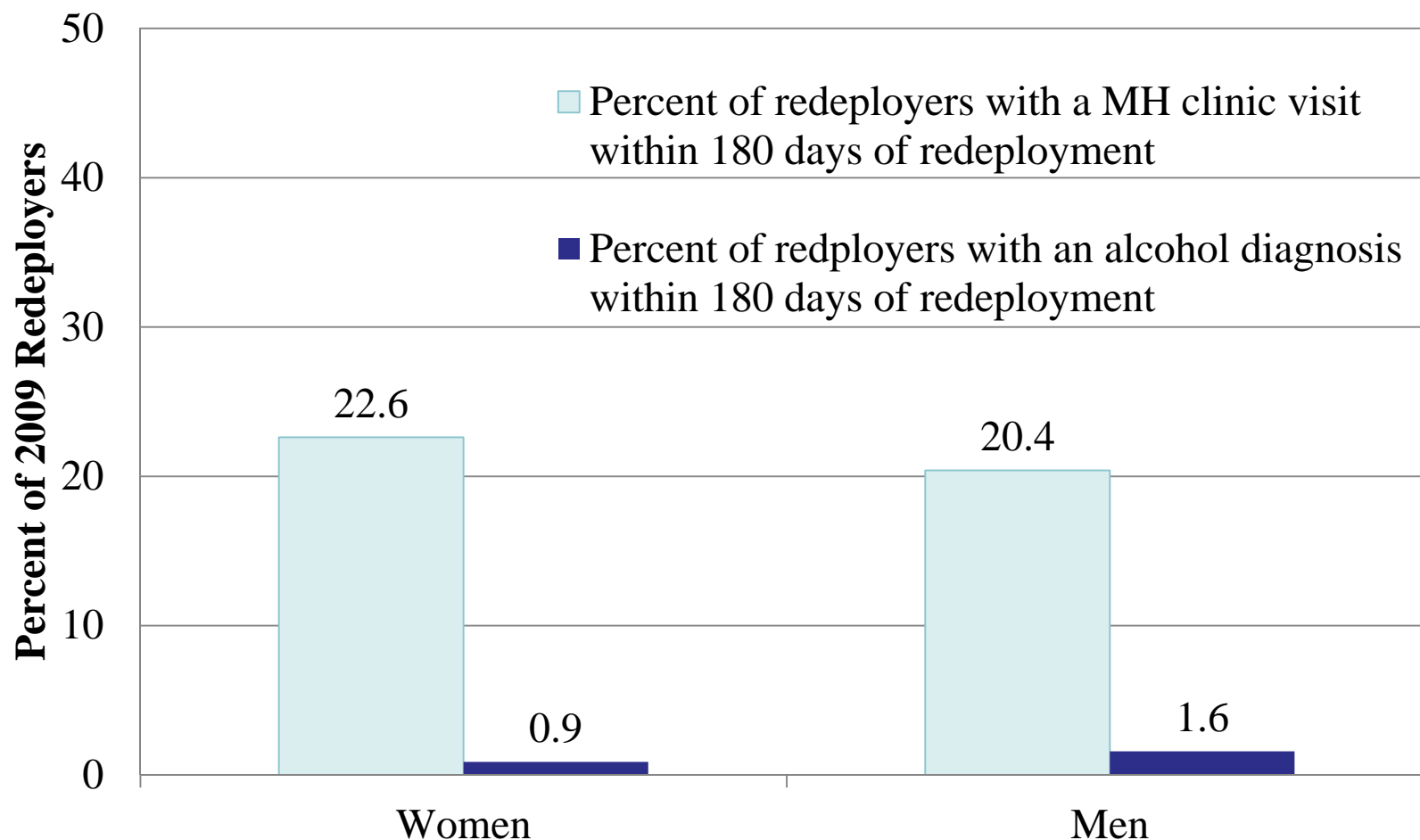
Men		
PDHA	% Alcohol Screen Positive	25.7
PDHRA	% Alcohol Screen Positive	36.6
Women		
PDHA	% Alcohol Screen Positive	21.6
PDHRA	% Alcohol Screen Positive	29.6

PDHA=Post-deployment health assessment
PDHRA=Post-deployment health re-assessment

Mental Health Encounters and Alcohol among Service Members Returning from Deployment in 2009



Source: Defense Medical Surveillance System

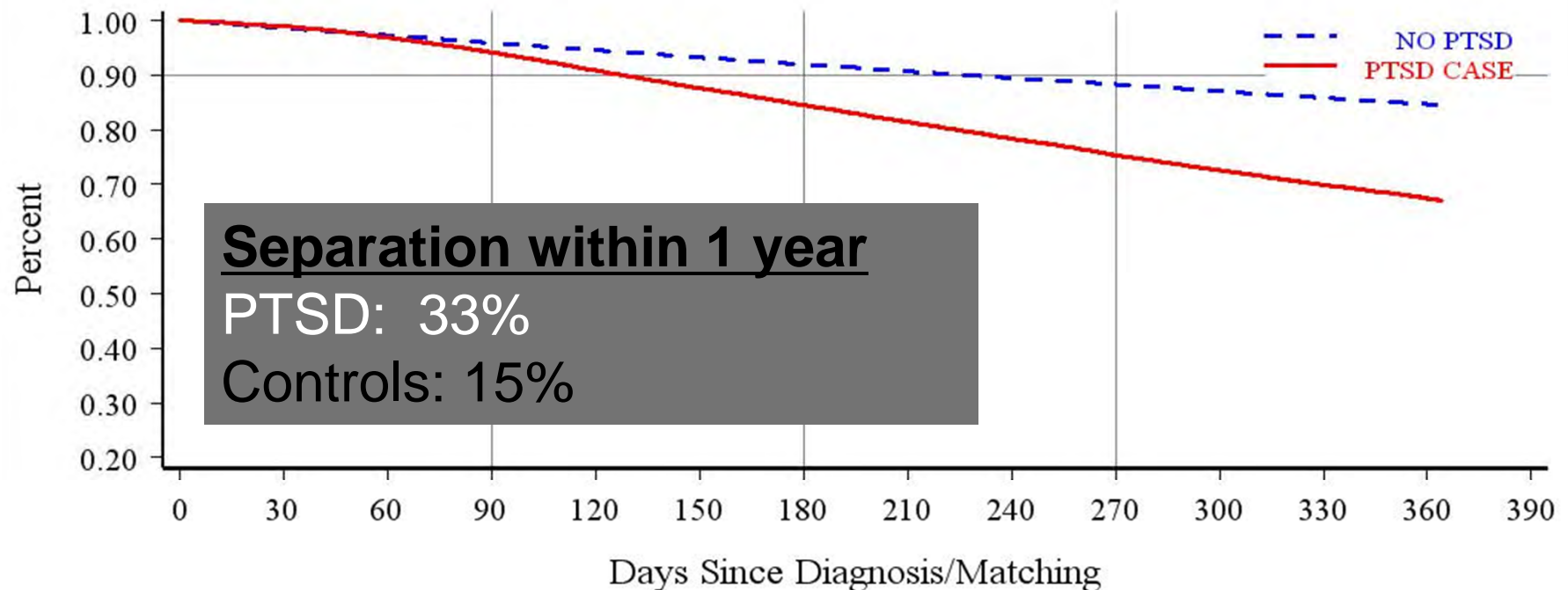


Survival Analysis Methods



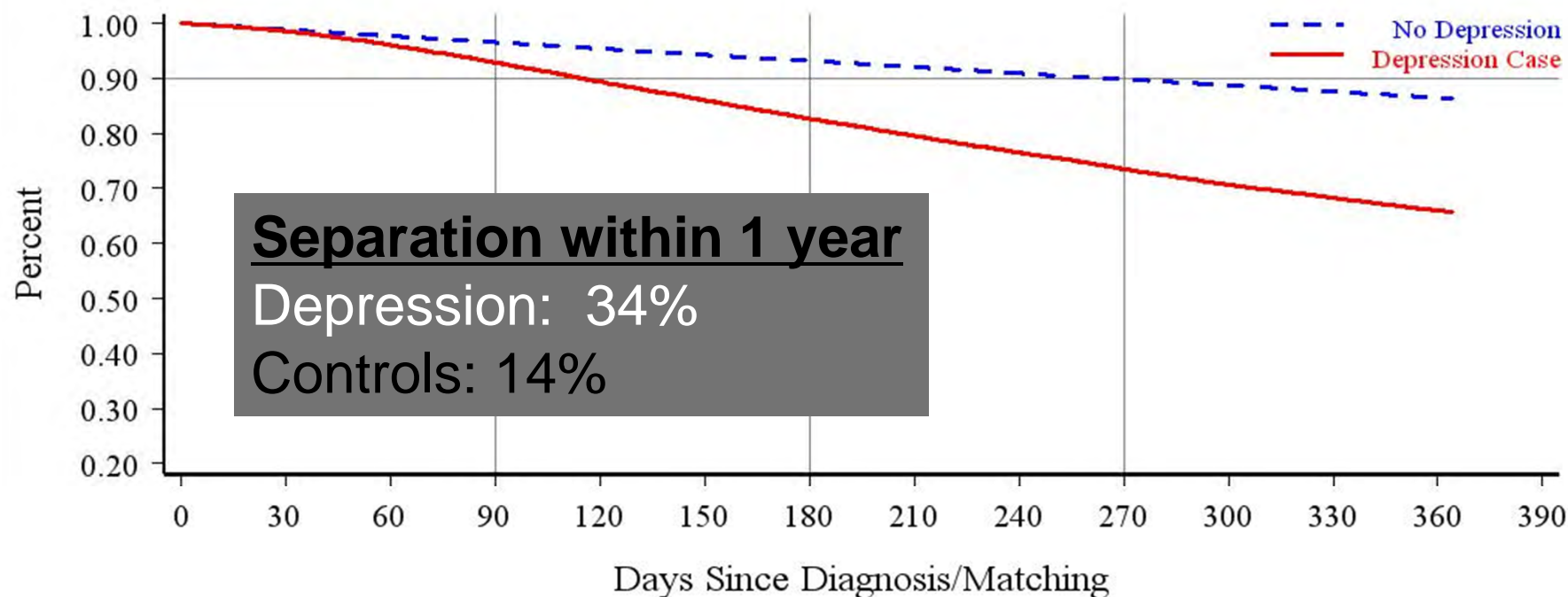
- PTSD Case definition: One inpatient or two outpatient encounters with an ICD-9 code = 309.81
- Data source-Defense Medical Surveillance System
- Depression Case definition: One inpatient or two outpatient encounters with any of the following ICD-9 codes: 296.20-296.24, 296.30-296.34
- Cases matched to 4 controls by:
 - Start date of first OEF/OIF deployment
 - Sex
 - Service at time of case's diagnosis
 - Component at time of case's diagnosis
 - Rank at time of case's diagnosis

PTSD Survival Analysis: Separation from Service



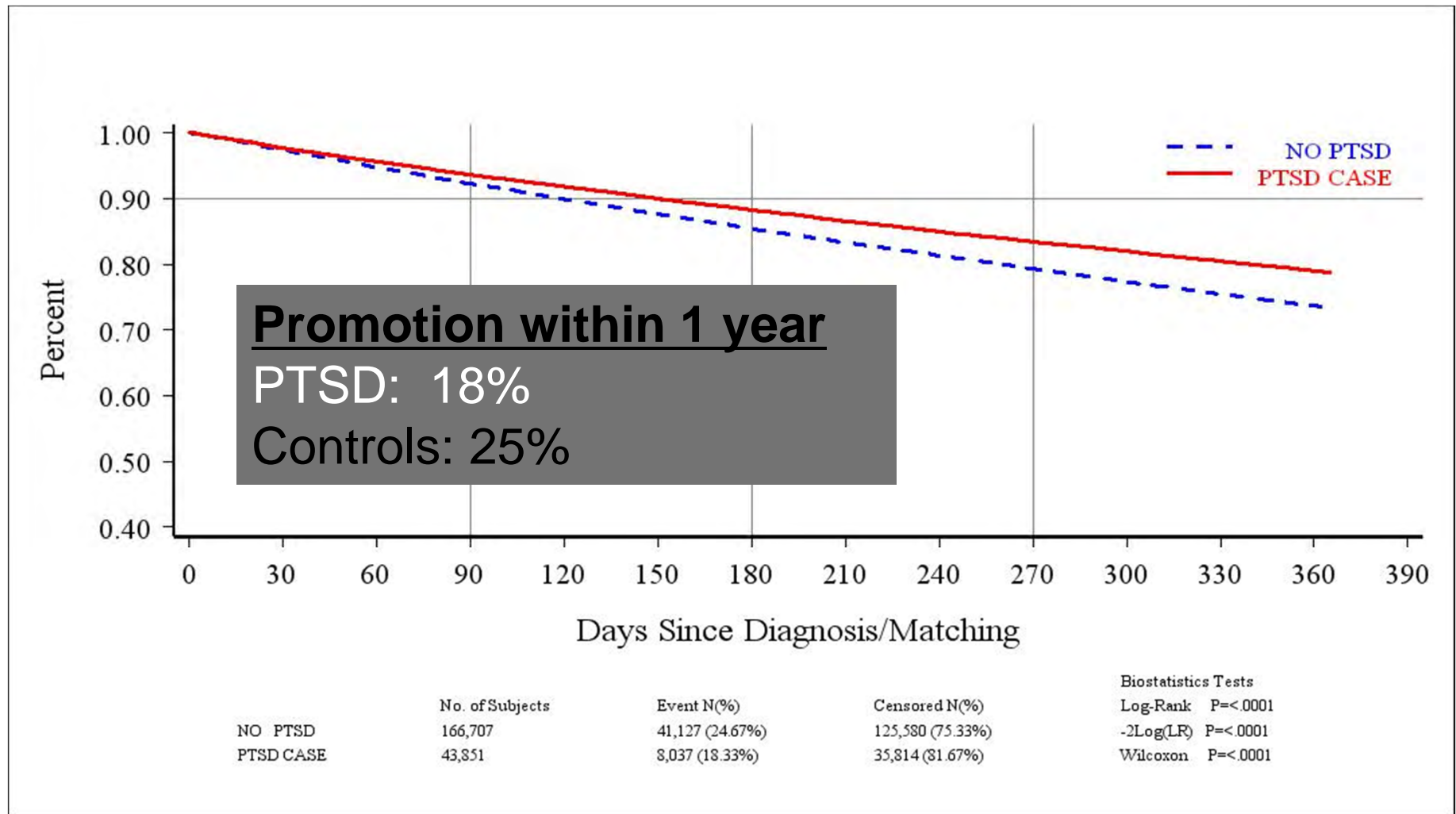
	No. of Subjects	Event N(%)	Censored N(%)	Biostatistics Tests
NO PTSD	166,707	25,867 (15.52%)	140,840 (84.48%)	Log-Rank P=<.0001
PTSD CASE	43,851	14,442 (32.93%)	29,409 (67.07%)	-2Log(LR) P=<.0001
				Wilcoxon P=<.0001

Depression Survival Analysis: Separation from Service

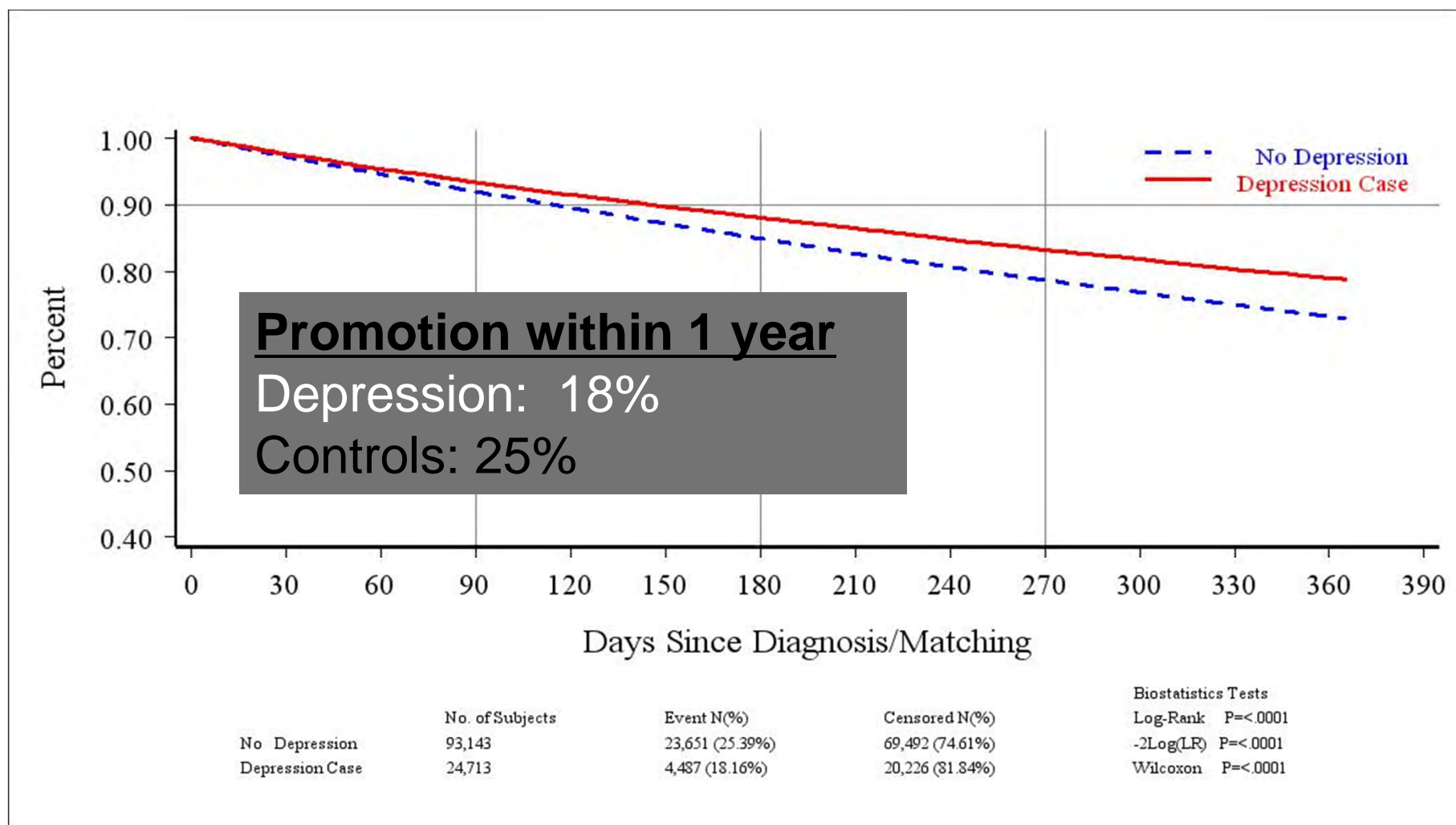


	No. of Subjects	Event N(%)	Censored N(%)	Biostatistics Tests
No Depression	93,143	12,731 (13.67%)	80,412 (86.33%)	Log-Rank P=<.0001
Depression Case	24,713	8,494 (34.37%)	16,219 (65.63%)	-2Log(LR) P=<.0001
				Wilcoxon P=<.0001

PTSD Survival Analysis: Promotion in Rank



Depression Survival Analysis: Promotion in Rank



Overview



- **Why revise deployment mental health assessments?**
- **What's new?**
 - ❖ Service member
 - ❖ Provider
 - ❖ Training guidance
- **Current Status**
 - ❖ Time line of actions
 - ❖ Service Implementation Status / Waivers
 - ❖ Evaluation
- **Four things you can do**

Current 2-Staged Mental Health Assessment



Self-Report Questions

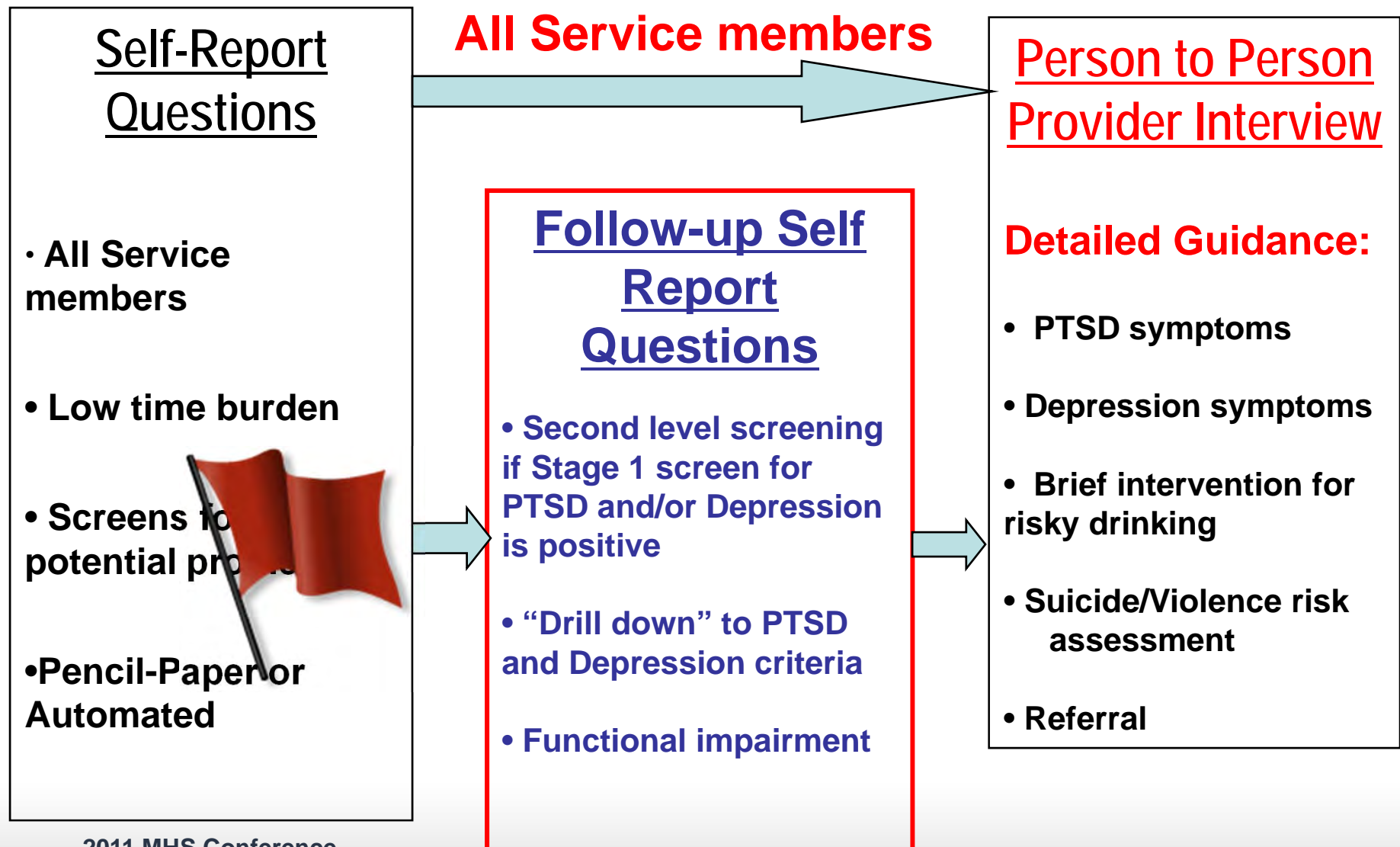
- All Service members
- Low time burden
- Screens for potential problems
- Pencil-Paper or Automated



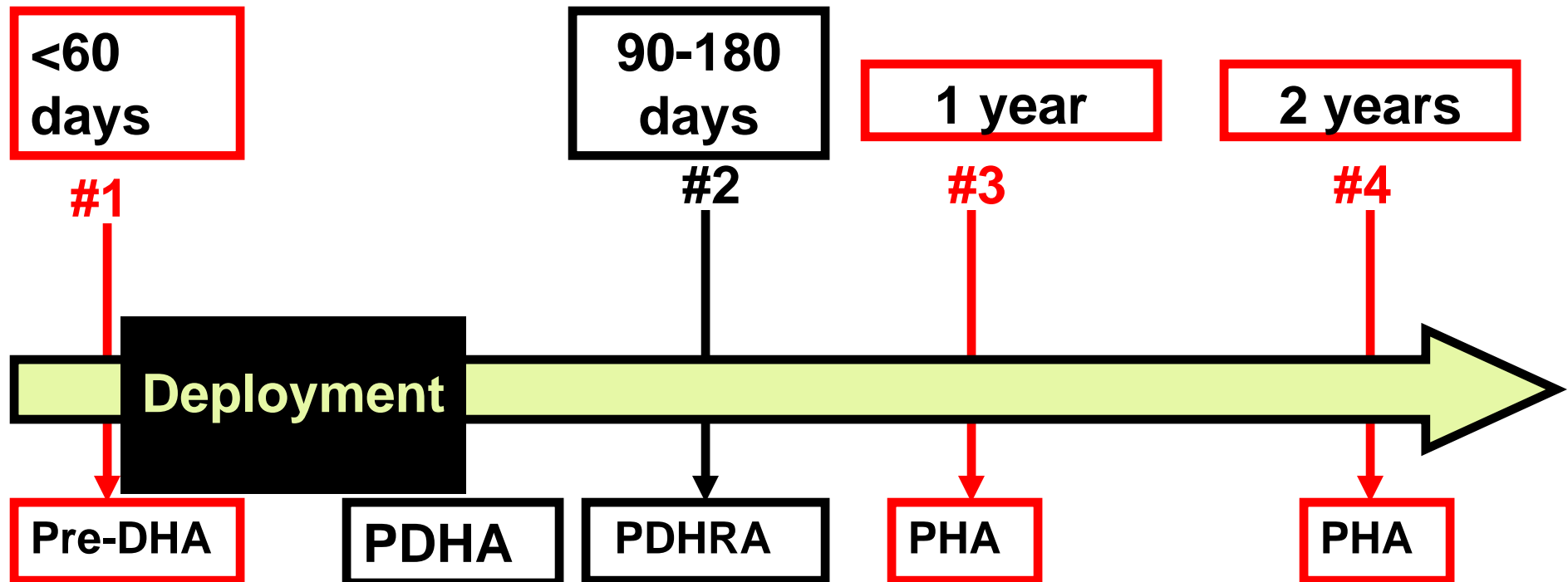
Provider Interview

- May or may not happen
- No provider training and/or guidance to conduct mental health assessments

NEW Mental Health Assessment – Readiness ++



Assessment Timeline

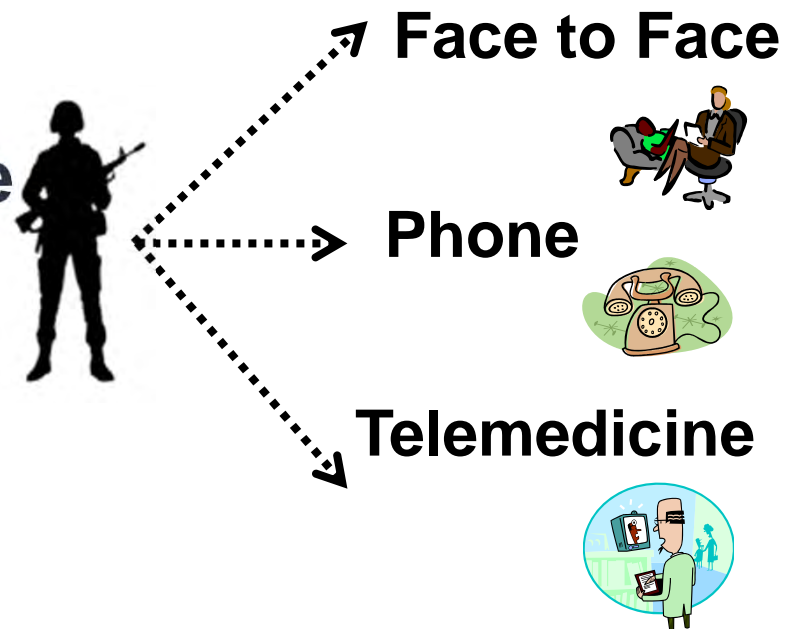


Pre-DHA (Pre-Deployment Health Assessment) – 60 days prior to deployment
PDHA (Post-Deployment Health Assessment) – 30 days before or after return from deployment
PDHRA (Post-Deployment Health Re-Assessment) – 90-180 days after return from deployment
PHA #1 (Periodic Health Assessment) – 7 - 12 months after return from deployment
PHA # 2 - Between 16 - 24 months after return from deployment

New Mental Health Assessments



- **Person-to-person dialogue**



- **Private**
- **Confidential**



Consistent across Services





Qualified Clinicians

- **Licensed mental health providers OR**
- **Trained and certified providers** (DoDI 6490.03)
 - ❖ Physicians, physician assistants, or nurse practitioners
 - ❖ Advanced practice nurses
 - ❖ Special Forces Medical Sergeants
 - ❖ Independent Duty Corpsmen
 - ❖ Independent Duty Medical Technicians
 - ❖ Independent Health Services Technicians



Training to Administer DoD Deployment Mental Health Assessments

<http://fhpr.osd.mil/mha>

**The Office of the Deputy Assistant Secretary of Defense
(Force Health Protection & Readiness)**

and

**The Deployment Health Clinical Center
Walter Reed Army Medical Center**

This educational activity is intended to provide training to and certification of providers of pre and post-deployment mental health assessments in accordance with OASD(HA) policy 10-005, "Mental Health Assessments for Members of the Armed Forces Deployed in Connection with a Contingency Operation."

Mental Health Assessment Training



	TOTAL	SUCCESSFUL	UNSUCCESSFUL
Total	1,700	1,630	70
Air Force	1,469	1,405	64
Army	39	36	3
Coast Guard	121	121	0
Navy	11	11	0
Other	60	57	3

Something **New** & Something Old



Service Member Self Report	2 nd Level Screen – Service Member Self Report	Provider interview
<ul style="list-style-type: none"> ▪ Mental health history ▪ Medications ▪ AUDIT-C (3 items) / TICS ▪ PTSD: PC-PTSD ▪ Depression PHQ-2 ▪ Other emotional problems ▪ Major life stressors ▪ interpersonal conflict ▪ Mental health concerns or questions ▪ Suicide / Violence 	<ul style="list-style-type: none"> ▪ PTSD Check List ▪ PHQ-8 ▪ Functional impairment 	<ul style="list-style-type: none"> ▪ Training guidance Certification ▪ Brief Intervention for alcohol use ▪ Scoring, Referral guidelines for PTSD, depression ▪ Suicide risk assessment ▪ Violence risk assessment

Suicidal Ideation- Risk Assessment



A. Verify whether Service member has *passive* thoughts of death (1st part of Question 10) or *active* thoughts of self-harm (2nd part of Question 10)

“Have you had thoughts of actually hurting yourself?”

B. If ‘Yes’, ask the following four questions (*Four P’s: Past history, Plan, Probability, Preventive factors*):

Ask about presence of a **plan**: *“Have you thought about how you might actually hurt yourself?”*
If Yes, How?

Estimate **probability**: *“There’s a big difference between having a thought and acting on a thought. How likely do you think it is that you will act on these thoughts about hurting yourself or ending your life some over the next month?”*

Determine if there are any **preventive factors**? *“Is there anything that would prevent or keep you from harming yourself?”*

Evaluate **past history**: *“Have you ever attempted to harm yourself in the past?”*

C. Assess other **risk factors** for suicide:

History of suicide attempt
Interpersonal conflicts
Social isolation
Substance abuse

Hopelessness
Significant co-morbid anxiety
Financial stress
Legal / disciplinary problems

Current Implementation Status



- **Air Force:** Full implementation -Jan 2011
- **Army:** Currently 2 pilot studies
- **Navy:** April 2011
- **Coast Guard:** Partial – November 2010
- **Air Force RC** - April 2011

Do These Assessments Add Value?



- Better at identifying mental health conditions?
- Does predeployment screening reduce mental health problems in theater?
- Are 3 post deployment screens too many?
- Track response to treatment?

4 Things You Can Do....



- **Get trained! <http://fhpr.osd.mil/mha>**
- **Ensure Service member privacy**
- **Ensure a warm hand-off for follow up care**
- **Talk to / convince a non-believer!**

Acknowledgments



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FHP&R

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- **John Davison**



Questions?

Military Health System Conference



January 24 – 27, 2011

Gaylord National Resort & Convention Center
National Harbor, MD

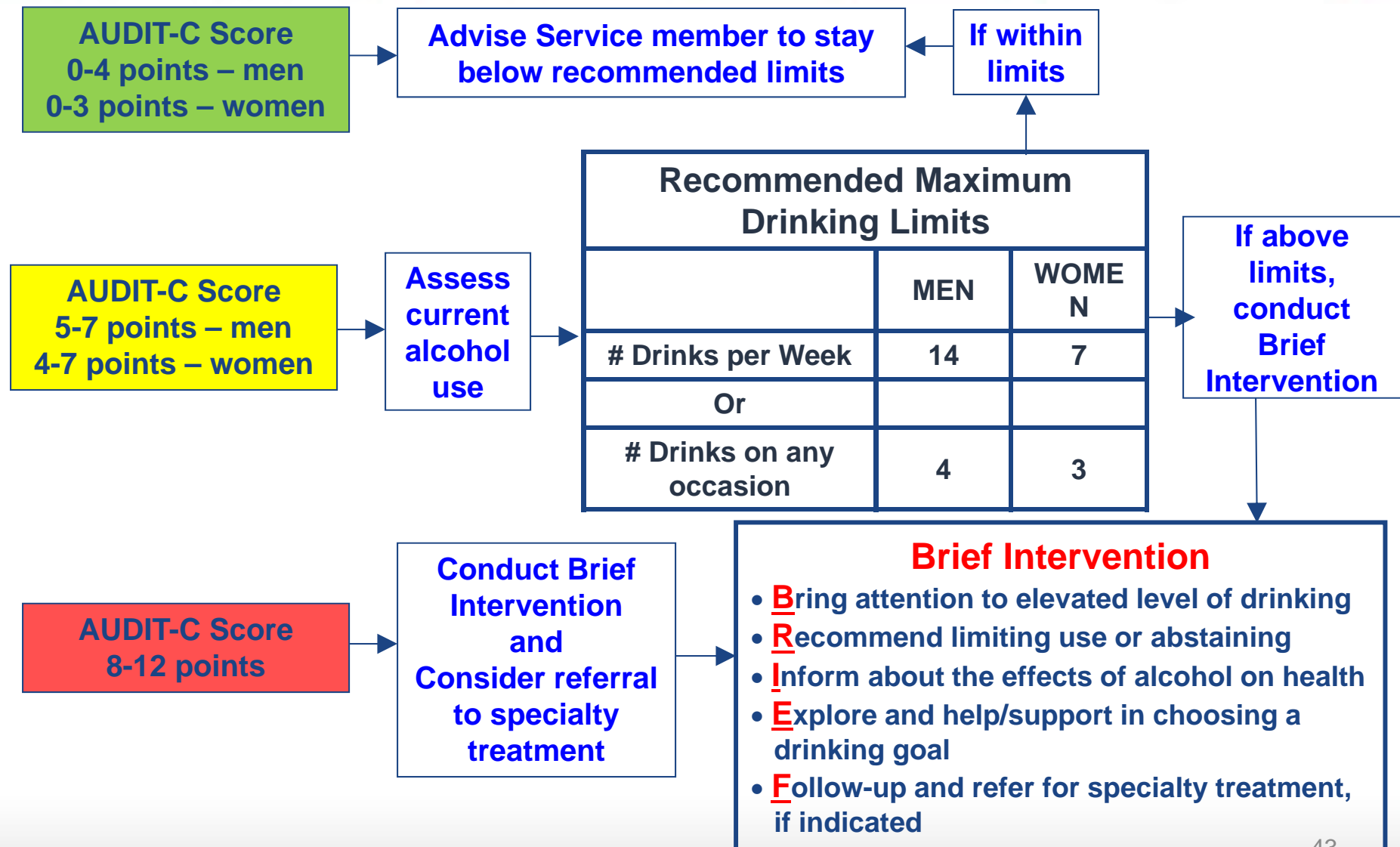
TODAY

**Tuesday
25 Jan**

- **Keeping Tabs - DoD's Response to Psychological Risks: Lessons Learned from Health Assessments**
- **Putting it All Together: The DoD/VA Integrated Mental Health Strategy**
- **Coming Soon to an MTF Near You: Psychological Health Policy Initiatives**

- **Keeping Tabs** – Lessons learned from health assessment data collected to date; how to best address family readiness; how the new DoD mental health assessments will be incorporated into the deployment health assessment program; *The Way Ahead!*
- **Integrated Mental Health Strategy** – DoD and VA collaboration on 28 strategic actions in four strategic areas, and what it means to you
- **How New DoD Psychological Health Policy Initiatives Will Affect You** – Disaster Response Mental Health Teams: A new requirement at DoD installations; DoD, Service, and installation-level directors of psychological health policy

Algorithm for Managing Risky Drinking*



Prevalence Rates, PTSD



Author	Source	Scale	Duration	Population	Rate	Our study
Hoge	JAMA (2006)	PC-PTSD (2+)	PDHA (2wks), 2003-2004	OIF Army/Marine (N=222 620)	9.8	9%
				OEF Army/Marine (N=16318)	4.7	
Hoge	NEJM 04	PCL-S +Fn	3-4 months post	Army/Marines	12.9/	/12.2
Shen	MilMed (2009)	PC-PTSD (2+)	PDHA (30d), 2002-2006	OIF Sailors (N = 15 059)	10.0	
				OEF Sailors (N = 1034)	5.0	
Milliken	JAMA (2007)	PC-PTSD (2+)	PDHA (2wks), 2005-2006	OIF Active (N = 56 350)	11.8/	
				OIF NG/R (N = 31 885)	12.7/	
			PDHRA (3-6mos), 2005-2006	OIF Active (N = 56 350)	16.7/	11%
				OIF NG/R (N = 31 885)	24.5/	

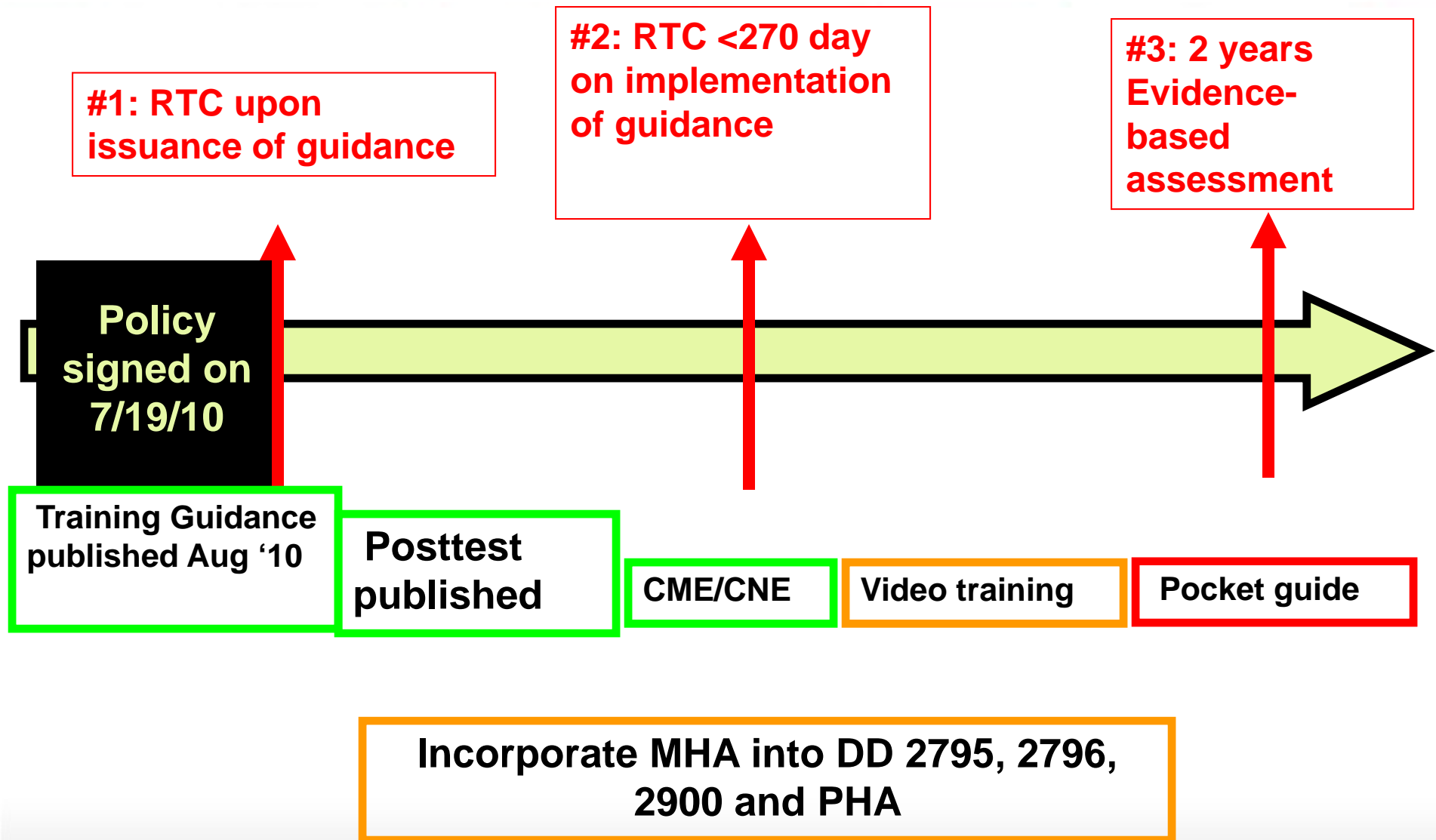


Stage 3: PTSD Algorithm

Level of Functioning	PCL Score <30 Sub-threshold or no PTSD Symptoms	PCL Score 30-39 Mild PTSD Symptoms	PCL Score 40-49 Moderate PTSD Symptoms	PCL Score ≥50 Severe PTSD Symptoms
Not difficult at all or Somewhat Difficult	Consider offering Reassurance AND PTSD Education*	PTSD Education*		Consider referral AND PTSD Education*
Very Difficult To Extremely Difficult	Assess need for further evaluation AND PTSD education* if indicated	Consider referral for further evaluation AND PTSD Education*		Refer to Mental Health AND PTSD Education*

***PTSD Education = Reassurance/Supportive counseling, provide literature on PTSD, encourage self-management activities and counsel to seek help for worsening symptoms**

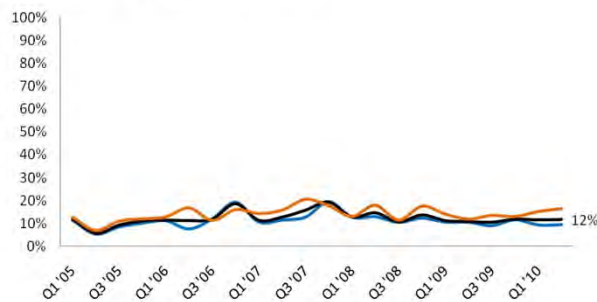
Implementation Timeline



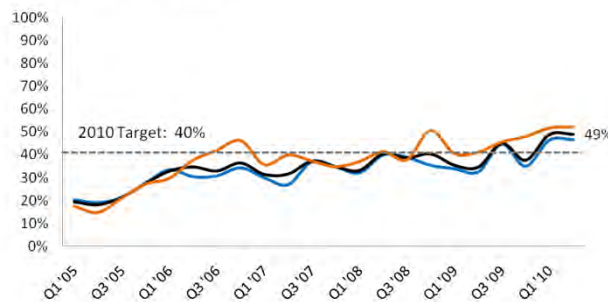
Do New Assessments Add Value?



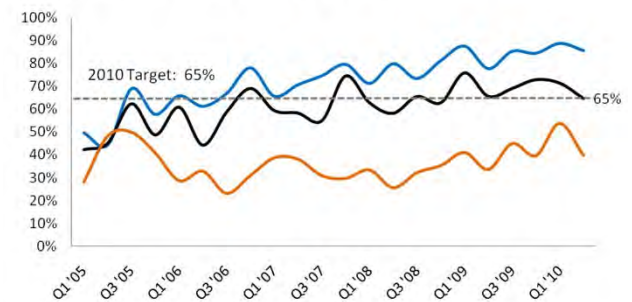
Positively Screened (P-rate) **PTSD**



Referred (R-rate)



Engaged in Treatment (T-rate)



■ Active ■ Reserve ■ Total

Total Persons Screened by Service and Component

	CY05_Q1	CY05_Q2	CY05_Q3	CY05_Q4	CY06_Q1	CY06_Q2	CY06_Q3	CY06_Q4	CY07_Q1	CY07_Q2	CY07_Q3	CY07_Q4	CY08_Q1	CY08_Q2	CY08_Q3	CY08_Q4	CY09_Q1	CY09_Q2	CY09_Q3	CY09_Q4	CY10_Q1	CY10_Q2
Army Active	39,319	9,413	10,133	23,633	33,333	7,791	23,634	47,377	12,372	2,273	13,906	43,235	23,486	27,064	21,801	39,032	32,792	28,369	30,343	33,334	24,722	27,711
Army Reserve	33,346	3,082	10,713	32,311	7,317	12,672	3,362	12,246	3,137	6,634	12,411	6,023	7,439	19,441	4,046	17,111	2,292	2,779	19,730	9,926	21,723	12,633
Navy Active	2,337	2,213	3,360	1,389	7,164	1,606	3,799	1,223	2,033	1,947	2,022	2,636	2,280	2,806	3,029	3,749	3,300	1,919	2,436	3,406	2,173	2,106
Navy Reserve	610	273	420	247	228	239	1,033	299	749	1,030	391	908	972	1,163	1,092	913	628	399	731	672	1,263	902
Air Force Active	13,470	13,023	12,744	3,439	14,629	13,319	13,230	2,173	14,313	14,213	13,622	9,434	12,420	14,313	12,339	10,074	13,271	12,429	14,111	11,414	14,691	13,243
Air Force Reserve	2,328	2,713	4,304	2,391	2,932	3,376	3,627	1,624	3,190	3,260	4,401	2,008	3,463	3,301	4,283	2,323	3,930	3,972	4,136	2,923	3,771	4,112
Marines Active	12,327	4,232	2,807	2,491	9,382	4,069	10,103	3,063	10,962	3,327	2,936	9,220	9,601	9,264	6,006	2,382	7,293	7,623	4,332	6,292	4,449	4,412
Marines Reserve	194	461	239	632	326	280	206	299	437	942	332	30	1,148	1,723	1,340	992	312	1,102	493	436	242	129
DoD Total	104,331	44,087	53,320	70,061	72,343	44,394	69,362	73,724	48,433	41,662	62,227	73,330	63,269	79,346	54,430	22,942	71,332	63,032	76,396	74,131	73,082	71,860

About the Measure

What are we measuring? Population is defined as returning deployers with a DD2796 (PDHA) or DD2900 (PDHRA) on file. Those with positive screen or referral on either form are counted. Screen positive percent = those who endorsed 2 or more symptoms on the PC-PTSD screen / form completers. Referral percent = those referred to mental health specialty or primary care, substance abuse, chaplain, or Military One Source / form completers screening positive. Follow up percent = those with mental health-related clinic encounter during 180 days following return / form completers who screened positive and were referred to mental health primary or specialty care.

Why is it important? We monitor our positive screened percentage (p-rate) as this reflects the level of PTSD symptoms in returning deployers. We also monitor the percentage of persons screened positive who were referred for treatment (R-rate) as a reflection of the effectiveness of the process for face to face review. Finally, we monitor the percentage of persons who engaged in treatment (T-rate).

What does our performance tell us? At this time, about 10% of Service members returning from OIF/OEF deployments are reporting symptoms of PTSD. The number referred for further evaluation or treatment has increased from about 20% to 40% over the past four years, possibly reflecting decreased stigma or increased provider awareness of PTSD. T-rate in Active Component is higher than Reserve Component. Note: The overall T-Rate decreased even though both the Active and Reserve rates increased. This is because there were more Reservists in Q2 and the effect of the weighted average resulted in an overall negative rate.

Executive Sponsor:
CPSC

Working Group: None

Measure Advocate:
Mr. Tim Powers
AFHSC; (301) 319-3242

Monitoring: Quarterly

Data Source: AFHSC

Other Reporting: Well
Being of the Force

Status Thresholds:

- Green: R-rate > 40% AND T-rate > 65%
- Yellow: R-rate 20%- 40% AND T-rate 50 – 65%
- Red: R-rate < 20% or T-rate < 50%

Targets:

- 2011: R-rate: 50%, T-rate: 75%
- 2012: R-rate: 50%, T-rate: 75%
- 2014: R-rate: 50%, T-rate: 75%

Example: PTSD assessment



Self Report: Primary Care PTSD Screen (PC-PTSD)

Have you ever had any experience that was so frightening, horrible, or upsetting that, *in the past month*, you:

4a. Have had nightmares about it or thought about it when you did not want to?	Yes	No
4b. Tried hard not to think about it or went out of your way to avoid situations that remind you of it?	Yes	No
4c. Were constantly on guard, watchful or easily startled?	No	No
4d. Felt numb or detached from others, activities, or your surroundings?	No	No

If two or more of these questions are endorsed "Yes" then continue to the PTSD Checklist.

Additional PTSD Questions



Below is a list of problems and complaints that persons sometimes have in response to stressful life experiences. Please read each question carefully and circle the number in the box which indicates how much you have been bothered by that problem in the last month. Please answer all items.

Scoring a: Add up the circled numbers in each of the five columns.

Response	1	2	3	4	5
4e. Repeated, disturbing <i>memories, thoughts, or images</i> of a stressful experience from the past?	1	2	3	4	5
4f. Repeated, disturbing <i>dreams</i> of a stressful experience from the past?	1	2	3	4	5
4g. Suddenly <i>acting or feeling</i> as if a stressful experience <i>were happening</i> again (as if you were reliving it)?	1	2	3	4	5
4h. Feeling very <i>upset</i> when <i>something reminded</i> you of a stressful experience from the past?	1	2	3	4	5
4i. Having <i>physical reactions</i> (e.g., heart pounding, trouble breathing, or sweating) when <i>something reminded</i> you of a stressful experience from the past?	1	2	3	4	5
4j. Avoid <i>thinking about</i> or <i>talking about</i> a stressful experience from the past or avoid <i>having feelings</i> related to it?	1	2	3	4	5
4k. Avoid <i>activities or situations</i> because they <i>remind you</i> of a stressful experience from the past?	1	2	3	4	5
4l. Trouble <i>remembering important parts</i> of a stressful experience from the past?	1	2	3	4	5
4m. Loss of <i>interest in things that you used to enjoy</i> ?	1	2	3	4	5
4n. Feeling <i>distant</i> or <i>cut off</i> from other people?	1	2	3	4	5
4o. Feeling <i>emotionally numb</i> or being unable to have loving feelings for those close to you?	1	2	3	4	5
4p. Feeling as if your <i>future</i> will somehow be <i>cut short</i> ?	1	2	3	4	5
4q. Trouble <i>falling or staying asleep</i> ?	1	2	3	4	5
4r. Feeling <i>irritable</i> or having <i>angry outbursts</i> ?	1	2	3	4	5
4s. Having <i>difficulty concentrating</i> ?	1	2	3	4	5
4t. Being " <i>super alert</i> " or watchful on guard?	1	2	3	4	5
4u. Feeling <i>jumpy</i> or easily startled?	1	2	3	4	5
For Primary Care Provider - Add Columns:	2	8	15	12	10
Total:			47		

Scoring b:
Sum the values from the columns to obtain a total severity score.



Stage 3: PTSD Algorithm

Level of Functioning	PCL Score <30 Sub-threshold or no PTSD Symptoms	PCL Score 30- 39 Mild PTSD Symptoms	PCL Score 40- 49 Moderate PTSD Symptoms	PCL Score ≥50 Severe PTSD Symptoms
Not difficult at all or Somewhat Difficult	Consider offering Reassurance AND PTSD Education*	PTSD Education*		Consider referral AND PTSD Education*
Very Difficult To Extremely Difficult	Assess need for further evaluation AND PTSD education* if indicated	Consider referral for further evaluation AND PTSD Education*		Refer to Mental Health AND PTSD Education*

***PTSD Education = Reassurance/Supportive counseling, provide literature on PTSD, encourage self-management activities and counsel to seek help for worsening symptoms**

Exceptions / Waivers



- **Pre deployment**
 - 60 to 120 days
- **1 year and 2 years after return**
 - 7-12 months to 7-18 months
 - 16-24 months to 16-30 months
- **Personnel**
- **Frequent deployers**

Comparable Screening Rates

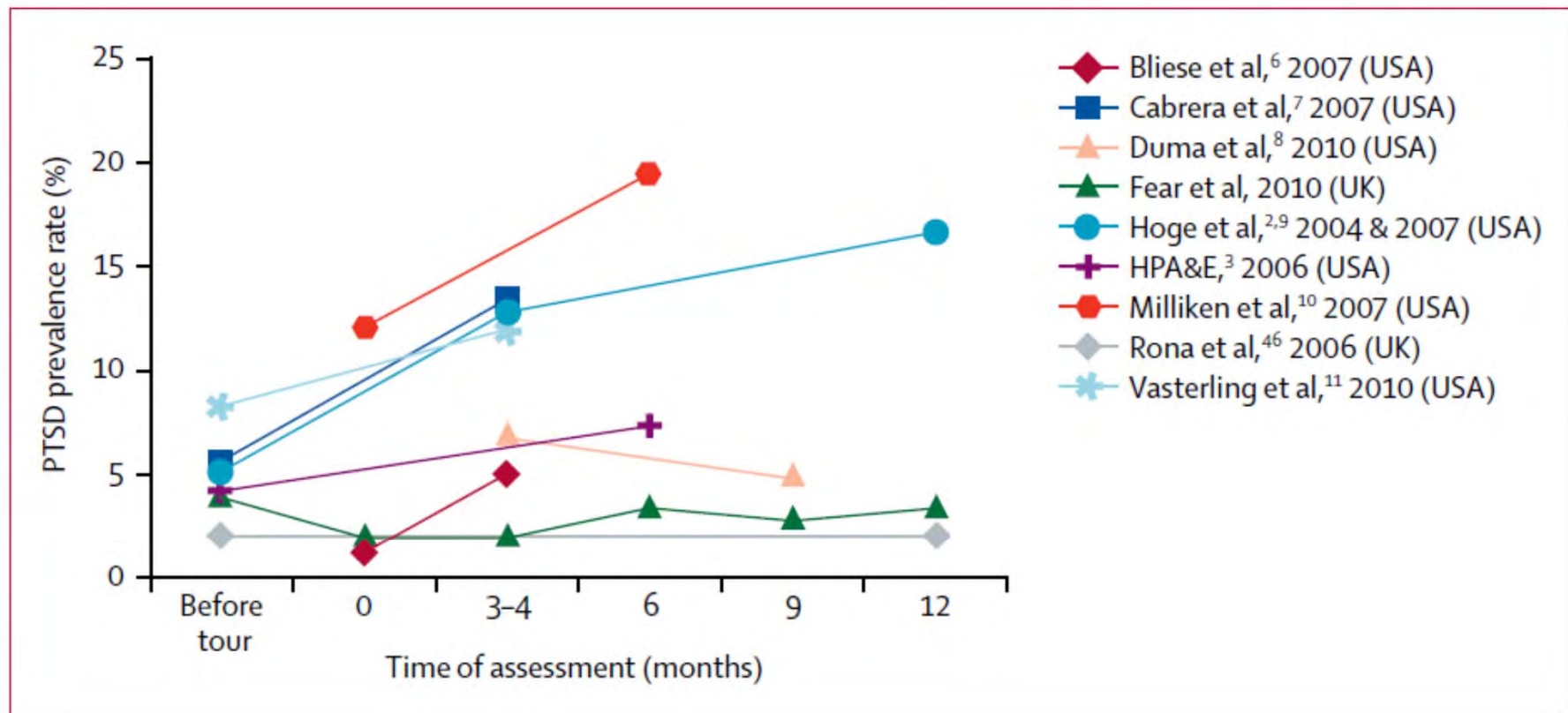


Figure 5: Prevalence of probable post-traumatic stress disorder (PTSD) within the first year of return since deployment (Fear et al, 2010)

Prevalence Rates, Depression



	Source	Scale	Duration	Population	Rate	Our rate
Hoge	JAMA (2006)	PHQ-2 (1+)	PDHA (2 weeks), 2003-2004	OIF Army/Marine (N=222 620)	6.1	3%
				OEF Army/Marine (N=16318)	3.5	
Hoge	NEJM 04	PHQ +Fn	3-4 months post	Army/Marines	7.9	7.1
Milliken	JAMA (2007)	PHQ-2 (1+)	PDHA (2wks), 2005-2006	OIF Active (N = 56 350)	4.7	
				OIF NG/R (N = 31 885)	3.8	
			PDHRA (3-6mos), 2005-2006	OIF Active (N = 56 350)	10.3	8%
				OIF NG/R (N = 31 885)	13.0	